

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named  
Inventor : Harvey A. Restaino et al.

Group Art Unit: 2838

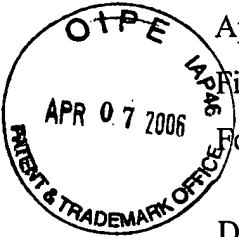
Examiner:

Appln. No. : 10/783,682

Filed : February 20, 2004

For : REPLACEABLE CLAMP FOR  
ELECTRONIC BATTERY TESTER

Docket No. : C382.12-0146



**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I HEREBY CERTIFY THAT THIS PAPER IS BEING  
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24<sup>th</sup> DAY OF September, 20 04.  
*Thomas R. Lougheed*  
PATENT ATTORNEY

Sir:

The patents or publications listed on the enclosed PTO Form-1449 are submitted pursuant to 37 C.F.R. § 1.97. Copies of the patents or publications cited are enclosed, except as waived by the Official Gazette notice of August 5, 2003 regarding copies of U.S. Patents and Published Applications.

**TIME OF FILING**

The information disclosure statement is being filed with the application or within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. In accordance with 37 C.F.R. § 1.97(b), no statement or fee is required.


**METHOD OF PAYMENT**

X No fee is required.  
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The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

WESTMAN, CHAMPLIN & KELLY, P.A.

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LRT/jme

FORM PTO-1449	Atty. Docket No.: C382.12-0146	Appl. No.: 10/783,682
 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor: Harvey A. Restaino et al.	
	Filing Date February 20, 2004	Group Art: 2838

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	RE37,677	4/30/02	Irie	315	83	
AB	5,081,565	1/14/92	Nabha et al.	362	61	
AC	5,661,368	8/26/97	Deol et al.	315	82	
AD	5,614,788	3/25/97	Mullins et al.	315	82	
AE	5,780,974	7/14/98	Pabla et al.	315	82	
AF	5,912,534	6/15/99	Benedict	315	82	
AG	6,091,238	7/18/00	McDermott	324	207.2	
AH						
AI						
AJ						
AK						

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
AL						
AM						
AN						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AO	
AP	
AQ	

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FORM PTO-1449

Atty. Docket No.:  
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10/783,682

U.S. DEPT. OF PATENTS AND PUBLICATIONS FOR  
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Applicant:

Harvey A. Restaino et al.

Filing Date

February 20, 2004

Group Art:

2838

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	CC	4,390,828	6/28/83	Converse et al.	320	32
	CD	4,392,101	7/5/83	Saar et al.	320	20
	CE	4,396,880	8/2/83	Windebank	320	21
	CF	4,408,157	10/4/83	Beaubien	324	62
	CG	4,423,378	12/27/83	Marino et al.	324	427
	CH	4,423,379	12/27/83	Jacobs et al.	324	429
	CI	4,424,491	1/3/84	Bobbett et al.	324	433
	CJ	4,459,548	7/10/84	Lentz et al.	324	158
	CK	4,514,694	4/30/85	Finger	324	429
	CL	4,520,353	5/28/85	McAuliffe	340	636
	CM	4,667,279	5/19/87	Maier	363	46
	CN	4,678,998	7/7/87	Muramatsu	324	427
	CO	4,679,000	7/7/87	Clark	324	428
✓	CP	4,697,134	9/29/87	Burkum et al.	320	48

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	CQ	EP 0 772 056 A1	5/7/97	EPO		X
SB	CR	EP 0 637 754 A1	2/8/95	EPO		X
SB	CS	2 088 159 A	6/3/82	Great Britain		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	CT	IEEE Recommended Practice For Maintenance, Testings, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, <u>The Institute of Electrical and Electronics Engineers, Inc., ANSI/IEEE Std. 450-1987, 3/9/1987, pp. 7-15.</u>
SB	CU	"Field and Laboratory Studies to Assess the State of Health of Valve-Regulated Lead Acid Batteries: Part I Conductance/Capacity Correlation Studies", by D. Feder et al., <u>IEEE</u> , August 1992, pgs. 218-233.

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	BL	4,112,351	9/5/78	Back et al.	324	16
	BM	4,114,083	9/12/78	Benham et al.	320	39
	BN	4,126,874	11/21/78	Suzuki et al.	354	60
	BO	4,178,546	12/11/79	Hulls et al.	324	158
	BP	4,193,025	3/11/80	Frailing et al.	324	427
	BQ	4,207,611	6/10/80	Gordon	364	580
	BR	4,315,204	2/9/82	Sievers et al.	322	28
	BS	4,316,185	2/16/82	Watrous et al.	340	636
	BT	4,322,685	3/30/82	Frailing et al.	324	429
	BU	4,363,407	12/14/82	Barkler et al.	209	3.3
	BV	4,369,407	1/18/83	Korbell	324	416
SB	BW	4,412,169	10/25/83	Dell'Orto	320	64

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	BX	03282276	12/12/91	Japan		Abstract Only
SB	BY	03274479	12/5/91	Japan		Abstract Only
SB	BZ	5216550	8/27/93	Japan		Abstract Only
SB	CA	59017894	1/30/84	Japan		Abstract Only

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

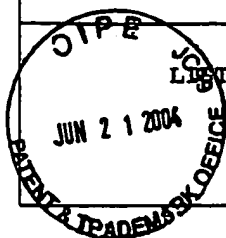
CB	"Internal Resistance: Harbinger of Capacity Loss in Starved Electrolyte Sealed Lead Acid Batteries, by Vaccaro, F.J. et al., <u>AT&amp;T Bell Laboratories</u> , 1987 IEEE, Ch. 2477, pp. 128,131.
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	AA	2,514,745	7/11/50	Dalzell	171	95
	AB	3,593,099	7/13/71	Scholl	320	13
	AC	3,607,673	9/21/71	Seyl	204	1
	AD	3,676,770	7/11/72	Sharaf et al.	324	29.5
	AE	3,729,989	5/1/73	Little	73	133
	AF	3,753,094	8/14/73	Furuishi et al.	324	29.5
	AG	3,808,522	4/30/74	Sharaf	324	29.5
	AH	3,811,089	5/14/74	Strezelewicz	324	170
	AI	3,873,911	3/25/75	Champlin	324	29.5
	AJ	3,886,443	5/27/75	Miyakawa et al.	324	29.5
	AK	3,889,248	6/10/75	Ritter	340	249
SA	AL	3,906,329	9/16/75	Bader	320	44

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	AM	59-17892	1/30/84	Japan		Abstract Only
	AN	59-17893	1/30/84	Japan		Abstract Only
	AO	59-17894	1/30/84	Japan		Abstract Only


OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	AP	"Electrochemical Impedance Spectroscopy in Battery Development and Testing", <u>Batteries International</u> , April 1997, pgs. 59 and 62-63.				
SB	AQ	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.				
SB	AR	"Determining The End of Battery Life", by S. DeBardelaben, <u>IEEE</u> , 1986, pgs. 365-368.				
SB	AS	"A Look at the Impedance of a Cell", by S. Debardelaben, <u>IEEE</u> , 1988, pgs. 394-397.				

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SB	AA	5,081,565	1/14/92	Nabha et al.	362	61
	AB	5,614,788	3/25/97	Mullins et al.	315	82
	AC	5,661,368	8/26/97	Deol et al.	315	82
	AD	5,780,974	7/14/98	Pabla et al.	315	82
	AE	5,912,534	6/15/99	Benedict	315	82
	AF	6,091,238	7/18/00	McDermott	324	207.2
	AG	RE37,677	4/30/02	Irie	315	83
	AH					
	AI					
	AJ					
	AK					

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	AL	WO 97/44652	27.11.97	WIPO		
	AM					
	AN					

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AO	Supplementary European Search Report Communication for Appl. No. 99917402.2.
AP	
AQ	

EXAMINER: 	DATE CONSIDERED: 06/28/05
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FORM PTO-101	Atty. Docket No.: C382.12-0146	Appl. No.: 10/783,682
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor: Harvey A. Restaino et al.	
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## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	AA	5,357,519	10/1994	Martin et al.	371	15.1
	AB	6,016,047	1/2000	Notten et al.	320	137
	AC	6,449,726	9/2002	Smith	713	340
	AD	6,215,275	4/2001	Bean	320	106
	AE	6,100,670	8/2000	Levesque	320	150
	AF	6,271,643	8/2001	Becker et al.	320	112
	AG					
	AH					
	AI					
	AJ					

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	AK	GB 2 387 235 A	08.10.2003	United Kingdom			
SB	AL	WO 00/16083	23.03.00	WIPO			
SB	AM	WO 01/16614	08.03.2001	WIPO			
SB	AN	WO 01/16615	08.03.2001	WIPO			
	AO						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	Search Report from Application No. GB0421447.4
AQ	Examination Report from Application No. GB0417678.0
AR	Champlin et al., K. S., "Results of Discrete Frequency Immittance Spectroscopy (DFIS) Measurements of Lead Acid Batteries", INTELEC 2001, October 2001.

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	GV	3,562,634	2/9/71	Latner	31	04
	GW	4,379,990	4/12/83	Sievers et al.	322	99
	GX	5,144,218	9/1/92	Bosscha	320	44
	GY	5,315,287	5/24/94	Sol	340	455
	GZ	5,469,043	11/21/95	Cherng et al.	320	31
	HA	5,546,317	8/13/96	Andrieu	364	481
	HB	5,583,416	12/10/96	Klang	320	22
	HC	5,589,757	12/31/96	Klang	320	22
	HD	5,656,920	8/12/97	Cherng et al.	320	31
	HE	5,710,503	1/20/98	Sideris et al.	320	6
	HF	5,760,587	6/2/98	Harvey	324	434
	HG	5,808,469	9/15/98	Kopera	324	43.4
	HH	6,008,652	12/28/99	Theofanopoulos et al.	324	434
	HI	6,009,369	12/28/99	Boisvert et al.	701	99
	HJ	6,031,354	2/29/00	Wiley et al.	320	116
	HK	6,037,751	3/14/00	Klang	320	160
	HL	6,072,299	6/6/00	Kurie et al.	320	112
	HM	6,094,033	7/25/00	Ding et al.	320	132
	HN	6,163,156	12/19/00	Bertness	324	426
	HO	6,172,483	1/9/01	Champlin	320	134
SA	HP	6,172,505	1/9/01	Bertness	324	430

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
No Trans	HQ	2 749 397	12/5/97	France		X
SB	HR	59215674	12/5/84	Japan		Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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SB	GA	5,773,978	6/30/98	Becker	324	430
	GB	5,789,899	8/4/98	van Phuoc et al.	320	30
	GC	5,793,359	8/11/98	Ushikubo	345	169
	GD	5,821,756	10/13/98	McShane et al.	324	430
	GE	5,831,435	11/3/98	Troy	324	426
	GF	5,872,443	2/16/99	Williamson	320	21
	GG	5,914,605	6/22/99	Bertness	324	430
	GH	5,945,829	8/31/99	Bertness	324	430
	GI	3,356,936	12/5/67	Smith	324	29.5
	GJ	5,488,300	1/30/96	Jamieson	324	432
	GK	6,002,238	12/14/99	Champlin	320	134
	GL	6,037,777	3/14/00	Champlin	324	430
	GM	6,051,976	4/18/00	Bertness	324	426
	GN	6,081,098	6/27/00	Bertness et al.	320	134
	GO	6,091,245	7/18/00	Bertness	324	426
	GP	6,104,167	8/15/00	Bertness et al.	320	132
	GQ	6,137,269	10/24/00	Champlin	320	150

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	GR DE 29 26 716 B1	1/15/81	Germany			X
SB	GS 0 022 450 A1	1/21/81	EPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	GT	"Performance of Dry Cells", by C. Hambuechen, Preprint of <u>Am. Electrochem. Soc.</u> , April 18-20, 1912, paper No. 19, pgs. 1-5.
SB	GU	"A Bridge for Measuring Storage Battery Resistance", by E. Willihmcanz, <u>The Electrochemical Society</u> , preprint 79-20, April 1941, pgs. 253-258.

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Receipt is hereby acknowledged by the Assistant Commissioner of  
Patents and Trademarks of the following items in the matter of:

Applicant : Harvey A. Restaino et al.  
Serial No./Patent No.: 10/783,682  
Filed/Issued : February 20, 2004  
Title/Mark : REPLACEABLE CLAMP FOR ELECTRONIC BATTERY TESTER

1. Supplemental Information Disclosure Statement



Atty/Sec LRT/jme Date: 9/24/04 File No. C382.12-0146